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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



A3

(54) Title: INDOLE-AMIDE DERIVATIVES AND THEIR USE AS GLYCOGEN PHOSPHORYLASE INHIBITORS

(57) Abstract: Heterocyclic amides of formula (1) (A chemical formula should be inserted here - please see paper copy enclosed herewith)(1) wherein: R¹ is independently selected from, for example, C₁₋₆alkyl, C₅₋₇cycloalkyl, C₅₋₇cycloalkylC₁₋₃alkyl, C₁₋₆alkoxy, C₅₋₇cycloalkoxy, C₅₋₇cycloalkylC₁₋₃alkoxy, heterocyclyl, heterocyclylC₁₋₃alkyl, heterocycloloxy or heterocyclylC₁₋₃alkoxy; R² is phenyl or heteroaryl; R³ is independently selected from hydrogen, halo, nitro, cyano, hydroxy, carboxy, carbamoyl, C₁₋₄alkyl, C₂₋₄alkenyl, C₂₋₄alkynyl, C₁₋₄alkoxy, C₁₋₄alkanoyl, fluoromethyl, difluoromethyl, trifluoromethyl and trifluoromethoxy; or a pharmaceutically acceptable salt or pro-drug thereof; possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity. Processes for the manufacture of said heterocyclic amide derivatives and pharmaceutical compositions containing them are described.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 39385 A (TREADWAY JUDITH L ;HULIN BERNARD (US); HOOVER DENNIS J (US); PFIZE) 12 December 1996 (1996-12-12) claims ---	1-13
A	WO 00 42213 A (UNIV NEW YORK) 20 July 2000 (2000-07-20) claims ---	1-13
P, A	WO 02 20530 A (FREEMAN SUE ;KENNY PETER (GB); MORLEY ANDREW (GB); WHITTAMORE PAUL) 14 March 2002 (2002-03-14) claims -----	1-13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search 26 September 2003	Date of mailing of the international search report 10/10/2003
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INTERNATIONAL SEARCH REPORT

ational application No.
PCT/GB 03/00936

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 12,13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte	inal Application No
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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9639385	A 12-12-1996	CA 2223625 A1 WO 9639385 A1 AP 624 A AT 205477 T AU 700887 B2 AU 5475396 A BG 62566 B1 BG 100635 A BR 9602626 A CN 1374082 A CZ 9601627 A3 DE 69522718 D1 DE 69522718 T2 DK 832066 T3 EP 0832066 A1 FI 974437 A GR 3037075 T3 HR 960266 A1 HU 9601285 A2 JP 11500445 T JP 3068200 B2 LV 11614 A LV 11614 B NO 962322 A NZ 286736 A PL 314603 A1 PT 832066 T RO 116963 B RU 2159613 C2 SG 45481 A1 SI 9600163 A SK 72096 A3 TR 970184 A1 TW 450961 B US 2002028810 A1 US 6297269 B1 ZA 9604646 A		12-12-1996 19-12-1997 15-09-2001 14-01-1999 19-12-1996 29-02-2000 30-09-1997 01-09-1998 16-10-2002 11-12-1996 18-10-2001 07-02-2002 19-11-2001 01-04-1998 05-12-1997 31-01-2002 31-08-1997 28-09-1998 12-01-1999 24-07-2000 20-12-1996 20-04-1997 09-12-1996 27-07-2001 09-12-1996 28-12-2001 30-08-2001 27-11-2000 16-01-1998 28-02-1997 05-11-1997 21-03-1997 21-08-2001 07-03-2002 02-10-2001 05-12-1997
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